

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.: BECK1120-1	Serial No.: 10/684,268
	Applicants: Montero-Julian and Monseaux	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: October 10, 2003	Group Art Unit: 1641

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AA	Chersi et al., "Polystyrene Beads Coated with Antibodies Directed to HLA Class I Intracytoplasmic Domain: The Use in Quantitative Measurement of Peptide-HLA Class I Binding by Flow Cytometry", <i>Human Immunology</i> , 61:1298-1306 (2000).
	AB	Flad et al., "Direct Identification of Major Histocompatibility Complex Class I-Bound Tumor-Associated Peptide Antigens of a Renal Carcinoma Cell Line by a Novel Mass Spectrometric Method", <i>Cancer Research</i> , 58(24):5803-5811 (1998).
	AC	Hunt et al., "Characterization of Peptides Bound to the Class I MHC Molecule HLA-A2.1 by Mass Spectrometry", <i>Science</i> , 255:1261-1263 (1992).
	AD	Jensen et al., "A Europium Fluoroimmunoassay for Measuring Peptide Binding to MHC Class I Molecules", <i>Journal of Immunological Methods</i> , 215:71-80 (1998).
	AE	Kozono et al., "Production of Soluble MHC Class II Proteins with Covalently Bound Single Peptides", <i>Nature</i> , 369(6476):151-154 (1994).
	AF	Miller et al., "Rapid Determination of Class I Peptide Binding Motifs Using Codon-Based Random Peptide Phage Display Libraries", <i>Journal of Cellular Biochemistry</i> (Supplement), 18D:292 (1994).

EXAMINER GT6529174.1 352039-25	DATE CONSIDERED
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	AG	Passmore et al., "Preparative-Scale Purification and Characterization of MHC Class II Monomers", <i>Journal of Immunological Methods</i> , 155(2):193-200 (1992).
	AH	Plytycz and Seljelid, "MHC Molecules and Lymphocytes: Evolutionary Perspective", <i>Archivum Immunologiae et Therapiae Experimentalis</i> , 46:137-142 (1998).
	AI	Tompkins et al., "A Europium Fluoroimmunoassay for Measuring Binding of Antigen to Class II MHC Glycoproteins", <i>Journal of Immunological Methods</i> , 163:209-216 (1993).

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FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/684,268
				Filing Date	October 10, 2003
				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	1	of	1	Attorney Docket Number	2512.0230001/KWM/C-K (2147-183-CIP)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	NPL63	Du Pasquier, R.A., <i>et al.</i> , "Low Frequency of Cytotoxic T Lymphocytes against the Novel HLA-A*0201-Restricted JC Virus Epitope VP1 _{p36} in Patients with Proven or Possible Progressive Multifocal Leukoencephalopathy", <i>J. Virol.</i> 77:11918-11926, American Society For Microbiology (November 2003)	
	NPL64	Hermans, I.F., <i>et al.</i> , "The VITAL assay: a versatile fluorometric technique for assessing CTL- and NKT-mediated cytotoxicity against multiple targets in vitro and in vivo", <i>J. Immunol. Methods</i> 285:25-40, North-Holland Publishing Co. (February 2004)	
	NPL65	Mallet-Designé, V.I., <i>et al.</i> , "Detection of Low-Avidity CD4 ⁺ T Cells Using Recombinant Artificial APC: Following the Antiovalbumin Immune Response", <i>J. Immunol.</i> 170:123-131, American Association of Immunologists (January 2003)	
	NPL66	Robert, B., <i>et al.</i> , "Antibody-conjugated MHC class I tetramers can target tumor cells for specific lysis by T lymphocytes", <i>Eur. J. Immunol.</i> 30:3165-3170, VCH Verlagsgesellschaft (2000)	
	NPL67	European Search Report for European Application No. EP 05 74 5499, completed on April 24, 2008, European Patent Office, The Hague, Netherlands	

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	NPL1	BODINIER, M., <i>et al.</i> , "Efficient detection and immunomagnetic sorting of specific T cells using multimers of MHC class I and peptide with reduced CD8 binding," <i>Nat. Med.</i> 6:707-710, Nature Publishing Company (2000)	
	NPL2	BUUS, S., <i>et al.</i> , "The Relation Between Major Histocompatibility Complex (MHC) Restriction and the Capacity of Ia to Bind Immunogenic Peptides," <i>Science</i> 235:1353-1358, American Association for the Advancement of Science (1987)	
	NPL3	CARBONE, F.R., and BEVAN, M.J., "Chapter 18: Major Histocompatibility Complex Control of T Cell Recognition," in <i>Fundamental Immunology 2nd Ed.</i> , Paul, W.E., ed., Raven Press Ltd., New York, NY, pp 541-567 (1989)	
	NPL4	CASON, J., <i>et al.</i> , "Analysis of human lymphocyte transformation responses to graded doses of T cell mitogens by curve fitting," <i>J. Immunol. Methods</i> 102:109-117, North-Holland Publishing Co. (1987)	
	NPL5	CELIS, E., <i>et al.</i> , "Induction of anti-tumor cytotoxic T lymphocytes in normal humans using primary cultures and synthetic peptide epitopes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:2105-2109, National Academy of Sciences (1994)	
	NPL6	CONSTANTIN, C.M., <i>et al.</i> , "Major Histocompatibility Complex (MHC) Tetramer Technology: An Evaluation," <i>Biol. Res. Nurs.</i> 4:115-127, Sage Publications, Inc. (October 2002)	
	NPL7	DORNMAIR, K., <i>et al.</i> , "Structural Intermediates in the Reactions of Antigenic Peptides with MHC Molecules," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 54:409-416, Cold Spring Harbor Laboratory Press (1989)	
	NPL8	GELUK, A., <i>et al.</i> , "Identification of Major Epitopes of <i>Mycobacterium tuberculosis</i> AG85B That Are Recognized by HLA-A*0201-Restricted CD8 ⁺ T Cells in HLA-Transgenic Mice and Humans," <i>J. Immunol.</i> 165:6463-6471, The American Association of Immunologists (2000)	
	NPL9	GERRITSMA, J.S.J., <i>et al.</i> , "The Constant Domain of IgG Is a Possible Target Antigen for Immunotherapy of B Cell Malignancies in HLA-A1 Mismatched Transplantation," <i>Blood</i> 98:404a-405a, The American Society of Hematology (December 2001)	
	NPL10	GORGA, J.C., <i>et al.</i> , "Purification and Characterization of Class II Histocompatibility Antigens from a Homozygous Human B Cell Line," <i>J. Biol. Chem.</i> 262:16087-16094, The American Society for Biochemistry and Molecular Biology (1987)	

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FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/684,268
				Filing Date	October 10, 2003
				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	2	of	7	Attorney Docket Number	2512.0230001/KWM/C-K

NON PATENT LITERATURE DOCUMENTS			
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	NPL11	HANSEN, T.H., and SACHS, D.H., "Chapter 16: The Major Histocompatibility Complex," in <i>Fundamental Immunology 2nd Ed.</i> , Paul, W.E., ed., Raven Press Publishing, New York, NY, pp 445-487 (1989)	
	NPL12	HENDERSON, R.A., <i>et al.</i> , "Direct identification of an endogenous peptide recognized by multiple HLA-A2.1-specific cytotoxic T cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:10275-10279, National Academy of Sciences (1993)	
	NPL13	HENGEL, H., <i>et al.</i> , "Frequency of Herpes Simplex Virus-Specific Murine Cytotoxic T Lymphocyte Precursors in Mitogen- and Antigen-Driven Primary <i>in vitro</i> T Cell Responses," <i>J. Immunol.</i> 139:4196-4202, The American Association of Immunologists (1987)	
	NPL14	HERR, W., <i>et al.</i> , "Detection and quantification of blood-derived CD8 ⁺ T lymphocytes secreting tumor necrosis factor α in response to HLA-A2.1-binding melanoma and viral peptide antigens," <i>J. Immunol. Methods</i> 191:131-142, North-Holland Publishing Co. (1996)	
	NPL15	HERR, W., <i>et al.</i> , "The use of computer-assisted video image analysis for the quantification of CD8 ⁺ T lymphocytes producing tumor necrosis factor α spots in response to peptide antigens," <i>J. Immunol. Methods</i> 203:141-152 North-Holland Publishing Co. (1997)	
	NPL16	HICKLING, J.K., <i>et al.</i> , "Varicella-Zoster Virus-Specific Cytotoxic T Lymphocytes (Tc): Detection and Frequency Analysis of HLA Class I-Restricted Tc in Human Peripheral Blood," <i>J. Virol.</i> 61:3463-3469, American Society For Microbiology (1987)	
	NPL17	HÖRIG, H., <i>et al.</i> , "An <i>in vitro</i> study of the dynamic features of the major histocompatibility complex class I complex relevant to its role as a versatile peptide-receptive molecule," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94:13826-13831, National Academy of Sciences (1997)	
	NPL18	HUGUES, S., <i>et al.</i> , "Generation and use of alternative multimers of peptide/MHC complexes," <i>J. Immunol. Methods</i> 268:83-92, North-Holland Publishing Co. (October 2002)	
	NPL19	HUNKAPILLER, M.W., <i>et al.</i> , "Isolation of Microgram Quantities of Proteins from Polyacrylamide Gels for Amino Acid Sequence Analysis," <i>Methods Enzymol.</i> 91:227-236, Academic Press (1983)	
	NPL20	KADIVAL, G.V., <i>et al.</i> , "Characterization of Serologic and Cell-Mediated Reactivity of a 38-kDa Antigen Isolated from <i>Mycobacterium tuberculosis</i> ," <i>J. Immunol.</i> 139:2447-2451, The American Association of Immunologists (1987)	
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	NPL21	KAWAKAMI, Y., <i>et al.</i> , "Cloning of the gene coding for a shared human melanoma antigen recognized by autologous T cells infiltrating into tumor," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:3515-3519, National Academy of Sciences (1994)	
	NPL22	KAWAKAMI, Y., <i>et al.</i> , "Identification of the Immunodominant Peptides of the MART-1 Human Melanoma Antigen Recognized by the Majority of HLA-A2-restricted Tumor Infiltrating Lymphocytes," <i>J. Exp. Med.</i> 180:347-352, Rockefeller University Press (1994)	
	NPL23	KUHNS, J.J., <i>et al.</i> , "Poor Binding of a HER-2/neu Epitope (GP2) to HLA-A2.1 Is Due to a Lack of Interactions with the Center of the Peptide," <i>J. Biol. Chem.</i> 274:36422-36427, The American Society for Biochemistry and Molecular Biology (1999)	
	NPL24	MAEURER, M.J., <i>et al.</i> , "Improved Detection of Melanoma Antigen-Specific T Cells Expressing Low or High Levels of CD8 by HLA-A2 Tetramers Presenting a Melan-A/Mart-1 Peptide Analogue," <i>Int. J. Cancer</i> 97:64-71, Wiley-Liss, Inc. (January 2002)	
	NPL25	MALE, D., "Chapter 2: Antibodies and Antigens," in <i>Immunology: An Illustrated Outline</i> , Bennet, D., ed., Gower Medical Publishing, London, England, p.19-34 (1986)	
	NPL26	MARX, J.L., "Histocompatibility Restriction Explained," <i>Science</i> 235:843-844, American Association for the Advancement of Science (1987)	
	NPL27	MEN, Y., <i>et al.</i> , "Assessment of Immunogenicity of Human Melan-A Peptide Analogues in HLA-A*0201/K ^b Transgenic Mice," <i>J. Immunol.</i> 162:3566-3573, The American Association of Immunologists (1999)	
	NPL28	ROBINSON, M.A., and KINDT, T.J., "Chapter 17: Major Histocompatibility Complex Antigens and Genes," in <i>Fundamental Immunology 2nd Ed.</i> , Paul, W.E., ed., Raven Press Ltd., New York, NY, pp 489-539 (1989)	
	NPL29	ROITT, I.M., <i>et al.</i> , eds., "Chapter 5: Antibody Structure and Function," in <i>Immunology</i> , Gower Medical Publishing, London, England, p.5.7, (1986)	
	NPL30	RUPPERT, J., <i>et al.</i> , "Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules," <i>Cell</i> 74:929-937, Cell Press (1993)	

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	NPL31	SAMELSON, L.E., <i>et al.</i> , "T Cell Antigen Receptor Phosphorylation Induced by an Anti-Receptor Antibody," <i>J. Immunol.</i> 139:2708-2714, The American Association of Immunologists (1987)	
	NPL32	SETTE, A., <i>et al.</i> , "Structural characteristics of an antigen required for its interaction with Ia and recognition by T cells," <i>Nature</i> 328:395-399, Nature Publishing Group (1987)	
	NPL33	SMITH, J.D., <i>et al.</i> , "Extensive peptide ligand exchange by surface class I major histocompatibility complex molecules independent of exogenous β_2 -microglobulin," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:7767-7771, National Academy of Sciences (1992)	
	NPL34	SØRENSEN, A.L., <i>et al.</i> , "Purification and Characterization of a Low-Molecular-Mass T-Cell Antigen Secreted by <i>Mycobacterium tuberculosis</i> ," <i>Infect. Immun.</i> 63:1710-1717, American Society For Microbiology (1995)	
	NPL35	Springfrog, "Temperature Converter," accessed online at http://springfrog.com/converter/temperature.htm , 2 pages (accessed 2008)	
	NPL36	THORLEY-LAWSON, D.A., and ISRAELSOHN, E.S., "Generation of specific cytotoxic T cells with a fragment of the Epstein-Barr virus-encoded p63/latent membrane protein," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 84:5384-5388, National Academy of Sciences (1987)	
	NPL37	TSIEN, R.Y., <i>et al.</i> , "T-cell mitogens cause early changes in cytoplasmic free Ca^{2+} and membrane potential in lymphocytes," <i>Nature</i> 295:68-71, Nature Publishing Group (1982)	
	NPL38	TSOMIDES, T.J., <i>et al.</i> , "An optimal viral peptide recognized by CD8 ⁺ T cells binds very tightly to the restricting class I major histocompatibility complex protein on intact cells but not to the purified class I protein," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88:11276-11280, National Academy of Sciences (1991)	
	NPL39	TURNER, M.J., <i>et al.</i> , "Purification of Papain-solubilized Histocompatibility Antigens from a Cultured Human Lymphoblastoid Line, RPMI 4265," <i>J. Biol. Chem.</i> 250:4512-4519, American Society for Biochemistry and Molecular Biology (1975)	
	NPL40	VALMORI, D., <i>et al.</i> , "Diversity of the Fine Specificity Displayed by HLA-A*0201-Restricted CTL Specific for the Immunodominant Melan-A/MART-1 Antigenic Peptide," <i>J. Immunol.</i> 161:6956-6962, The American Association of Immunologists (1998)	

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	NPL41	VAN DER BURG, S.H., <i>et al.</i> , "An HLA Class I Peptide-Binding Assay Based on Competition for Binding to Class I Molecules on Intact Human B Cells. Identification of Conserved HIV-1 Polymerase Peptides Binding to HLA-A*0301," <i>Hum. Immunol.</i> 44:189-198, Elsevier/North-Holland (1995)	
	NPL42	VAN DER BURG, S.H., <i>et al.</i> , "Immunogenicity of Peptides Bound to MHC Class I Molecules Depends on the MHC-Peptide Complex Stability," <i>J. Immunol.</i> 156:3308-3314, The American Association of Immunologists (1996)	
	NPL43	"2006 Annual Immune Epitope Database and Discovery Workshop Meeting Report Executive Summary," at <i>The Third Annual Immune Epitope Database and Discovery Workshop</i> held on November 7 and 8, 2006 in North Bethesda, Maryland, 3 pages (January 2007)	
	NPL44	ARNOLD, P.Y., <i>et al.</i> , "The Majority of Immunogenic Epitopes Generate CD4 ⁺ T Cells That Are Dependent on MHC Class II-Bound Peptide-Flanking Residues," <i>J. Immunol.</i> 169:739-749, The American Association of Immunologists (July 2002)	
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FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/684,268
				Filing Date	October 10, 2003
				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	6	of	7	Attorney Docket Number	2512.0230001/KWM/C-K

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	NPL51	GRETEN, T.F., and SCHNECK, J.P., "Development and Use of Multimeric Major Histocompatibility Complex Molecules," <i>Clin. Diagn. Lab. Immunol.</i> 9:216-220, American Society for Microbiology (March 2002)	
	NPL52	KLEIN, J., and SATO, A., "The HLA System - Second of Two Parts," <i>N. Engl. J. Med.</i> 343:782-786, Massachusetts Medical Society (September 2000)	
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	NPL55	OGG, G.S., and MCMICHAEL, A.J., "HLA-peptide tetrameric complexes," <i>Curr. Opin. Immunol.</i> 10:393-396, Current Biology (1998)	
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	NPL57	RÖTZSCHKE, O., <i>et al.</i> , "Conformational variants of class II MHC/peptide complexes induced by N- and C-terminal extensions of minimal peptide epitopes," <i>Proc. Natl. Acad. Sci. USA</i> 96:7445-7450, National Academy of Sciences (1999)	
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	NPL59	STONE, J.D., <i>et al.</i> , "T-Cell Activation by Soluble MHC Oligomers Can Be Described by a Two-Parameter Binding Model," <i>Biophys. J.</i> 81:2547-2557, Biophysical Society (November 2001)	
	NPL60	WELSH, R.M., "Assessing CD8 T Cell Number and Dysfunction in the Presence of Antigen," <i>J. Exp. Med.</i> 193:F19-F22, The Rockefeller University Press (March 2001)	

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	NPL61	WOLL, M.M., <i>et al.</i> , "Direct Measurement of Peptide-Specific CD8+ T cells Using HLA-A2:Ig Dimer for Monitoring the <i>In Vivo</i> Immune Response to a HER2/neu Vaccine in Breast and Prostate Cancer Patients," <i>J. Clin. Immunol.</i> 24:449-461, Kluwer Academic/Plenum Publishers (July 2004)	
	NPL62	ZARUTSKIE, J.A., <i>et al.</i> , "A Conformational Change in the Human Major Histocompatibility Complex Protein HLA-DR1 Induced by Peptide Binding," <i>Biochemistry</i> 38:5878-5887, American Chemical Society (1999)	

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